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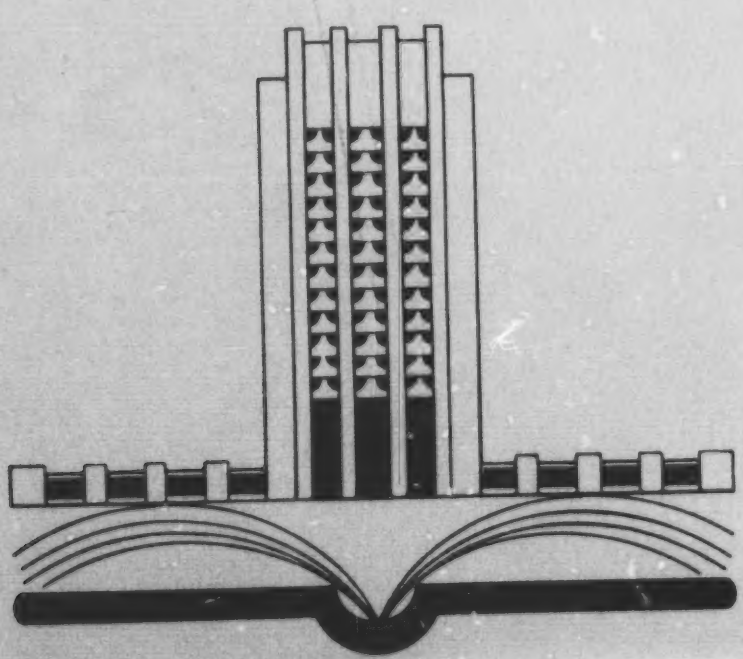

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Abstract: In today's markets, Americans are opting for fresh produce that is organically grown-fruits and vegetables raised without the help of chemical pesticides, herbicides, fungicides or fertilizers- to the extent that 75 percent of consumers polled by the Food Marketing Institute believed that residues from pesticides and herbicides can be a potential hazard. Chemicals are used to make produce grow bigger, look better and last longer. Processes such as waxing, fertilizing and irradiating are being utilized. Problems may arise when the use of chemicals in these processes is overused, mishandled or abused. A report released by the National Academy of Sciences revealed that our food supply is safe, but can be improved by enforcing stricter standards to reduce dietary risk of cancer from pesticides. Food companies are also attempting to apply stricter standards in growing produce. Organically grown produce is an alternative to avoid chemicals on produce; however, even organic pesticides can be potentially harmful. So, the organic farmers and producers are also enforcing stricter standards. Nutritionally, United States studies revealed no difference between organically grown produce and their conventionally grown counterparts. However, Canadian studies found that organically grown produce contains more sugar (and perhaps more of other nutrients).

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mineralizable N in manure-amended surface soils (0-7.5 cm) were 22 to 40% greater than nonmanured soils receiving fertilizer and/or herbicide. Soluble P levels were eightfold greater in manure-amended surface soils, and soil nitrate levels after harvest in 1981 were two- to threefold greater to a depth of 30 cm than nonmanured chemical treatments. Soil microbial biomass, bacterial and fungal counts, dehydrogenase activity, and CO2 evolution were greater in soils planted to oat/clover (Avena sativa L./Trifolium pratense L. + Melilotus officinalis Lam.) and treatments receiving manure. Increases in microbial populations and their activities paralleled increases in soil organic C content, Kjeldahl N, and water-filled pore space. Differences in N2 fixation and denitrification between crops and management systems were minimal-possibly resulting from suboptimal water availability at midseason sampling. No significant differences were found in measured soil physical, chemical, or biological properties due to herbicide or insecticide at field application rates.

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